Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-06-05-15 **Date: 29/06/2020**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227, 32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	150.46 X 149.99 X 150.20	22568	8.669	538.0	23.8	23.3
2	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	151.88 X 149.03 X 149.99	22634	8.181	514.6	22.7	
3	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	151.69 X 149.07 X 149.41	22612	8.572	526.9	23.3	

Note:
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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-05-15** **Date: 29/06/2020**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227, 32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	149.99 X 150.19 X 151.82	22527	8.669	518.9	23.0	22.8
2	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	150.29 X 149.62 X 151.85	22487	8.181	499.3	22.2	
3	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	149.94 X 151.16 X 151.70	22664	8.572	525.2	23.2	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-05-15 **Date: 29/06/2020**

Customer : Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.

Address : Yelahankha Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division

Agency : Sri B.Girish No 227, 32A Cross, 7th Block, Jayanagara, Bangalore 560011

Customer's Reference : EE/YNK/D/EPMT-10/WO/249/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	151.33 X 149.03 X 149.01	22552	8.669	521.5	23.1	23.0
2	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	150.98 X 151.23 X 151.73	22834	8.181	507.5	22.2	
3	Drain Bottom Slab Concrete	M20	01/06/2020	29/06/2020	149.73 X 150.06 X 150.73	22468	8.572	532.4	23.7	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-05-15 **Date: 02/07/2020**

Customer : Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.

Address : Yelahankha Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division

Agency : Sri B.Girish No 227, 32A Cross, 7th Block, Jayanagara, Bangalore 560011

Customer's Reference : EE/YNK/D/EPMT-10/WO/249/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	151.94 X 150.07 X 151.36	22801	8.007	528.4	23.2	23.4
2	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	149.20 X 150.54 X 150.53	22460	8.043	514.6	22.9	
3	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	151.11 X 151.40 X 151.24	22877	8.612	548.7	24.0	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/07/2020

Lab ID	:	CP-2020-06-05-15
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227, 32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	149.69 X 149.35 X 151.81	22355	8.007	516.6	23.1	23.1
2	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	150.31 X 149.08 X 151.66	22408	8.043	498.8	22.3	
3	Drain Side Wall Concrete	M20	04/06/2020	02/07/2020	149.45 X 150.96 X 150.68	22560	8.612	536.9	23.8	

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QC ABSTRACT

NAME OF WORK: Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	150.8	12	12
9	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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ಬೆಂಗಳೂರು-560 063

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/06/2020

Lab ID	:	CP-2020-06-05-15
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	150.11 X 150.15 X 151.26	22540	8.919	408.5	18.1	18.4
2	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	149.35 X 151.25 X 149.93	22590	8.944	414.2	18.3	
3	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	151.26 X 151.75 X 149.60	22955	8.670	433.3	18.9	

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CIVIL Pro Sig. Date BANGALORE

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-06-05-15** **Date: 08/06/2020**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	150.84 X 151.41 X 150.48	22838	8.919	412.0	18.0	18.3
2	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	150.90 X 151.30 X 151.10	22832	8.944	414.4	18.1	
3	Drain Bottom Slab Concrete	M20	01/06/2020	08/06/2020	149.05 X 149.01 X 150.16	22211	8.670	414.8	18.7	

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-06-05-15 **Date: 11/06/2020**

Customer : Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.

Address : Yelahankha Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division

Agency : Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011

Customer's Reference : EE/YNK/D/EPMT-10/WO/249/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-06-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/06/2020	11/06/2020	150.89 X 149.43 X 150.15	22547	8.950	420.2	18.6	18.8
2	Drain Side Wall Concrete	M20	04/06/2020	11/06/2020	150.18 X 151.76 X 150.11	22790	8.072	428.2	18.8	
3	Drain Side Wall Concrete	M20	04/06/2020	11/06/2020	151.00 X 150.91 X 149.05	22787	8.136	430.2	18.9	

Note:

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Page 1/1
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-06-05-15** **Date: 30-05-20**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-05-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-06-05-15** **Date: 08-05-20**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-06-05-15** **Date: 08-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 08-05-20

Lab ID	:	CP-2020-06-05-15
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 08-06-20

Lab ID	:	CP-2020-06-05-15
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-20
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/06/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	16.8	21.0
2	B	100.03	165.49	8.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	8.815	7854	145.1	18.5	18.5	23.1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-06-05-15** **Date: 09-05-20**
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-06-05-15 Date: 04-06-20
Customer	:	Assistant Executive Engineer, Yelahankha Satellite Town Sub Division , BBMP, Bangalore.
Address	:	Yelahankha Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Development of Parks in ward no-04 of Yelahanka New Town Sub Division
Agency	:	Sri B.Girish No 227,32A Cross, 7th Block, Jayanagara, Bangalore 560011
Customer's Reference	:	EE/YNK/D/EPMT-10/WO/249/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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